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Serial No. : 09/648,123  
Filed : August 25, 2000  
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Attorney's Docket No.: 11926-068001 / 0009.CIP2

31. The probe of claim 27 wherein the probe comprises DNA and at least one nucleic

acid analog.

32. The probe of claim 27 wherein the probe comprises a peptide nucleic acid.

33. The probe of claim 27 wherein the probe further comprises a detectable label.

34. The probe of claim 33 wherein the label is a fluorescent label.